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## NOTICE OF ALLOWANCE AND FEE(S) DUE

32291 7590 09/30/2008

MARTINE PENILLA & GENCARELLA, LLP  
710 LAKEWAY DRIVE  
SUITE 200  
SUNNYVALE, CA 94085

EXAMINER

HUYNH, NAM TRUNG

ART UNIT

PAPER NUMBER

2617

DATE MAILED: 09/30/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,761	03/24/2004	Daniel R. Coward	SUNMP324 / P9667	5906

TITLE OF INVENTION: SYSTEM AND METHOD FOR ADVANCED SERVICE INTERACTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/30/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

## HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to:** **Mail** **Mail Stop ISSUE FEE**  
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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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32291 7590 09/30/2008

**MARTINE PENILLA & GENCARELLA, LLP**  
**710 LAKEWAY DRIVE**  
**SUITE 200**  
**SUNNYVALE, CA 94085**

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,761	03/24/2004	Daniel R. Coward	SUNMP324 / P9667	5906

**TITLE OF INVENTION: SYSTEM AND METHOD FOR ADVANCED SERVICE INTERACTION**

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nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/30/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
HUYNH, NAM TRUNG	2617	455-414100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_  
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_  
3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_  
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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/808,761	03/24/2004	Daniel R. Coward	SUNMP324 / P9667	5906
32291	7590	09/30/2008	EXAMINER	
MARTINE PENILLA & GENCARELLA, LLP 710 LAKEWAY DRIVE SUITE 200 SUNNYVALE, CA 94085			HUYNH, NAM TRUNG	
			ART UNIT	PAPER NUMBER
			2617	
DATE MAILED: 09/30/2008				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 159 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 159 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.

10/808,761

Examiner

NAM HUYNH

Applicant(s)

COWARD ET AL.

Art Unit

2617

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 6/16/08.
2. ☒ The allowed claim(s) is/are 9-11, 13-17, 22-25 and 27-29.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

/George Eng/  
Supervisory Patent Examiner, Art Unit 2617

## DETAILED ACTION

### *Response to Amendment*

This office action is in response to amendment filed on 6/16/2008. Of the previously presented claims 9-11, 13-17, 22-25, and 27-29; claims 9, 15, 22, and 29 have been amended.

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jayanthi Minisandram on 9/9/2008 for the claims and 9/22/08 for the specification.

#### **Specification**

On page 1, paragraph 1, line 3 the underline should be replaced with 10/808824.

#### **Claims**

9. A system for providing advanced service interaction for a mobile device, comprising:

a user action proxy to,

a) detect user actions,

b) store information associated with user actions in a user information;

c) monitor each service subscribed to by a user, the monitoring further includes detection of a pattern common to at least two services by interpreting a combination of at least two service activities to mean a particular event,

d) generate a user alert when a pattern is detected;  
a user information system storing user profile information and the user action information based on a particular user;

a service information system storing service description data describing a plurality of services available to the user;

**a service aggregator that examines service description data associated with at least two services available to the mobile device to determine if the at least two services can be combined and dynamically combining the at least two services into a linked aggregated service using the service description data associated with each of the at least two services upon successful determination, the link aggregated service providing information from each of the linked services to the user in a pooled form;**

a ranker filter module that predicts a set of services from the plurality of services that the user is expected to utilize within a predefined period of time based on the user profile information and the user action information stored in the user information system;  
and

a renderer that generates a display of the set of services on the mobile device, wherein the renderer displays services of the set of services in a primary, secondary, and tertiary positions on a mobile device display, and wherein the primary positions are

most predominate in the mobile device display and the tertiary positions are least predominate in the mobile device display.

15. A system as recited in claim 9, wherein the service aggregator further comprising examines the user information system to determine if the user is interested in the linked aggregated service prior to dynamically combining the at least two services. ~~a service aggregator that examines service descriptor data associated with at least two services available to the mobile device to determine if the services can be combined and dynamically combining combines the at least two services into a linked aggregated service using the service description data associated with each of the at least two services "upon successful determination, the linked aggregated service providing information from both each of the linked services to the user in a pooled form.~~

22. A method for creating a presentation for advanced service interaction on a mobile device, the method comprising:

generating a home page display on the mobile device, wherein the home page display includes a set of services selected from a plurality of services, the Set of services selected from the plurality of services according to a prediction about the set of services that a user is expected to utilize within a predefined period of time based on a profile associated with the user, at least one service of the set of services being associated with a particular service, wherein the particular service is different from each service of the plurality of services, wherein services of the set of services are displayed in a primary, secondary, and tertiary positions on the home page display, and wherein

the primary positions are most predominate in the home page display and the tertiary position are least predominate in the home page display;

**examining service descriptor data associated with at least two services from the set of services in the home page display to determine if the at least two services can be combined and dynamically combining the at least two services of the plurality of services into a linked aggregated service using the service description data associated with each of the at least two individual services, wherein the linked aggregated service is presented at the home page display and provides information from each of the at least two services to the user in a pooled form;**

monitoring each service from the set of services displayed on the mobile device, the monitoring further including detecting a pattern common to at least two services by interpreting a combination of at least two service activities from the set of services to mean a particular event;

generating a user alert when a pattern is detected;

accepting signals from a user input device to allow a selection of the at least one service of the set of services, wherein the selection of the at least one service of the set of services facilitates the user interacting with the particular service;

storing usage pattern information describing a usage pattern of the particular service in the profile associated with the user; and

generating a query display on the mobile device, wherein the query display is generated based on the usage pattern information describing the usage pattern of the



particular service, the query display prompting the user to add the particular service to the set of services, wherein a confirmation from the user facilitates including the particular service in the set of services displayed in the home page display.

29. A method as recited in claim 28, further comprising **examining the profile associated with the user to determine if the user is interested in the linked aggregated service prior to dynamically combining the at least two services.** ~~the operation operations of examining the service descriptor data associated with at least two services from the set of services in the home page display to determine if the at least two services can be combined and dynamically combining the at least two services of the plurality of services into a linked aggregated service using the service description data associated with each of the at least two individual services, wherein the linked aggregated service provides information from each of the at least two services to the user in a pooled form.~~

***Allowable Subject Matter***

2. Claims 9-11, 13-17, 22-25, and 27-29 are allowed.
3. The following is an examiner's statement of reasons for allowance:

The invention of the present application pertains to advanced service interaction for mobile devices. It provides a seamless, intuitive, easy user experience with data services on mobile devices and additionally provides techniques that facilitate service aggregation and management for carrier network providers.

Regarding the claimed invention, the novelty lies in the combination of all the limitations set forth, but namely the user action proxy and service aggregator. The claim recites that the user action proxy is configured to a) detect user actions b) store information associated with user actions in a user information system c) monitor each service subscribed to by a user, the monitoring further includes detection of a pattern common to at least two services by interpreting a combination of at least two service activities to mean a particular event d) generate a user alert when a pattern is detected. The service aggregator examines service description data with the at least two services available to the mobile device to determine if the at least two services can be combined and dynamically combining the at least two services into a linked service using the service description data associated with each of the at least two services upon successful determination, the linked aggregated service providing information from each of the linked services to the user in a pooled form. Therefore the user action proxy detects and stores user actions and further monitors for a pattern common to at least two service activities. The service aggregator then determines if the services for which a pattern is detected are combinable and links them together and provides the information from the linked aggregated service to the user.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NAM HUYNH whose telephone number is (571)272-5970. The examiner can normally be reached on 8 a.m.-5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/  
Supervisory Patent Examiner, Art Unit 2617

NTH  
9/9/08